Electronic Version
Stylesheet Version v1.1.1

Claims

[c1] 1. A base station devised for indoor use in a WCDMA network, comprising a support unit including a power supply unit, said support unit being adapted to be attached to support structure, such as e.g. a wall in a building, and a complete base station unit mechanically supported by said support unit.

[c2] 2. The base station as recited in claim 1, wherein said support unit comprises support members and said base station unit comprises cooperating hanger members which are devised to connect to said support members in a pivotable engagement, and wherein cooperating locking means are included in said support unit and in said base station unit, which are devised to engage with each other by pivoting said base station unit.

[c3] 3. The base station as recited in claim 1, comprising an internal antenna connected to said base station unit.

[c4] 4. Method for installing a base station for indoor use in a WCDMA network, which base station comprises a support unit including a power supply unit, and a complete base station unit mechanically supported by said support

unit, comprising the steps of:

- mechanically attaching said support unit to a support structure;
- mechanically attaching said base station unit to the support unit;
- connecting the base station unit to said network, to an antenna, and to said power supply unit; and
- downloading application software and office data from a management tool to said base station unit.

[c5] 5. The method as recited in claim 4, comprising the step of :

- connecting said management tool directly to said base station unit, for direct downloading of said application software and office data to the base station unit.

[c6] 6. The method as recited in claim 4, comprising the step of :

- connecting said management tool to a central radio network controller of said network, for downloading of said application software and office data to the base station through said network.

[c7] 7. WCDMA network, including one or more outdoor macro base stations, and an indoor base station for which cell radius is restricted to a maximum of 1000 m and speed is restricted to a maximum of 120 km/h, for

covering a hotspot area.

[c8] 8. Base station devised for indoor use in a WCDMA network, comprising a base station unit having an interface for connection to a power supply, a radio network controller, and to an antenna, said base station unit having a sandwich structure comprising a rigid metal back plate, a rigid metal front plate, and a main circuit board attached intermediate said back plate and front plate, wherein said main circuit board is cooled by means of self-convection of said back plate and said front plate.

[c9] 9. The base station as recited in claim 8, wherein said back plate comprises cooling flanges on a side facing away from said circuit board.

[c10] 10. The base station as recited in claim 8, wherein said front plate comprises a mechanical interface for attaching an internal antenna.

[c11] 11. The base station as recited in claim 8, wherein said main circuit comprises border portions dividing the main circuit board in sections with separate circuits, and where said front plate comprises inner walls with end portions engaging said border portions for shielding said separate circuits from each other.

[c12] 12. The base station as recited in claim 8, further com-

prising a separate circuit board carrying circuitry for a transmission interface to said network, which separate circuit board is connectable to saidmain circuit board.

[c13] 13. Method for assembly of a base station unit as recited in claim 8, comprising the steps of;

- placing the back plate on an assembly support;
- placing the circuit board on the back plate;
- attaching the circuit board to the back plate;
- placing the front plate on the circuit board; and
- attaching the front plate to the back plate.